2107-283.ST25.txt SEQUENCE LISTING

JC17 Rec'd PCT/PTO 20 SEP 2005

<110>	Greiner, Steffen		JULY NEU G FO:/FIO		
/110 >	Harms, Karsten Kunz, Markward Munir, Mohammad Rausch, Thomas Schirmer, Markus	,			
<120>	ALTERED PPASE IN SUGAR E	BEET			
<130>	P/2107-283				
<140> <141>	PCT/EP2004/001405 2004-02-14				
<150> <151>	DE 103 13 795.5 2003-03-20				
<160>	21				
<170>	PatentIn version 3.3				
<210> <211> <212> <213>	1 1041 DNA Beta vulgaris				
<400> attata	1 aaaa cccctcaaaa tcaggagaa	g tttaaggaat	ttgtagatct	ccgattcttc	60
tgtatt	cgtt cattctaaaa gctttcgat	t ttacgctctt	cgctaatttt	tctgaaacat	120
ggatga	ggag atgaatgctg ttgcggaga	t gaatgctgtt	gcttctaaag	taaaagaaga	180
gtatcg	ccga gctccgaagt tgaaccaaa	g gatcatttcg	tcaatgtcaa	ggagatctgt	240
tgcggc	ccat ccttggcatg atctcgaga	t tggacctaat	gcccctgaaa	tctgtaactg	300
tgttgt	tgag atacctaaag ggagcaagg	t caagtatgag	cttgacaaga	aaactggact	360
tattat	ggtt gatcgaatat tatactcat	c tgtggtctat	cctcacaact	atggttttat	420
tccaag	aaca ttgtgcgaag atggtgac	c catggatgtt	ttagtgctca	tgcaggaacc	480
agtcgt	ccca ggtcgctttc ttcgagcco	g ggcaattggt	ttaatgccta	tgattgatca	540
ggggga	gaaa gacgataaga taattgcag	t ttgtgccgat	gatcctgaag	ttcgccatta	600
cactga	tatc aaccagcttc ctcctcato	g tttggctgag	atcagacgct	tttttgagga	660
ctacaa	gaaa aatgagaaca aagaggtto	c agtgaatgaa	tttttgccag	ctcaaattgc	720
tcatga	tgcc atccagcact ctatggato	t ctatgcggaa	tacatcctac	agacattgag	780
gagatg	atga atggcacttt caattattg	t cattcatatc	ctgaagtaat	attgaaggct	840
tttggt	caca ttgttacatc ttatttttg	g tgctacctat	ttaagagtcg	atgttggaaa	900
tcccaa	aaga aagaaaagga gattttcc	t gttccttttc	tgaatcttct	tgtcgaaaat	960
tttatg	tatt gtagtaaagc taaaacaa	c ttcatgaact	ttgaagttga	gtttcctgta	1020
		Dago	1		

tcatgtttgg tttaggaggc t

<210> 2 <211> 22

<211> 222 <212> PRT

<213> Beta vulgaris

<400> 2

Met Asp Glu Glu Met Asn Ala Val Ala Glu Met Asn Ala Val Ala Ser 10 15

Lys Val Lys Glu Glu Tyr Arg Arg Ala Pro Lys Leu Asn Gln Arg Ile 20 25 30

Ile Ser Ser Met Ser Arg Arg Ser Val Ala Ala His Pro Trp His Asp 35 40 45

Leu Glu Ile Gly Pro Asn Ala Pro Glu Ile Cys Asn Cys Val Val Glu 50 60

Ile Pro Lys Gly Ser Lys Val Lys Tyr Glu Leu Asp Lys Lys Thr Gly 65 70 75 80

Leu Ile Met Val Asp Arg Ile Leu Tyr Ser Ser Val Val Tyr Pro His 85 90 95

Asn Tyr Gly Phe Ile Pro Arg Thr Leu Cys Glu Asp Gly Asp Pro Met $100 \hspace{1cm} 105 \hspace{1cm} 110$

Asp Val Leu Val Leu Met Gln Glu Pro Val Val Pro Gly Arg Phe Leu 115 120 125

Arg Ala Arg Ala Ile Gly Leu Met Pro Met Ile Asp Gln Gly Glu Lys 130 135 140

Asp Asp Lys Ile Ile Ala Val Cys Ala Asp Asp Pro Glu Val Arg His 145 150 155 160

Tyr Thr Asp Ile Asn Gln Leu Pro Pro His Arg Leu Ala Glu Ile Arg 165 170 175

Arg Phe Phe Glu Asp Tyr Lys Lys Asn Glu Asn Lys Glu Val Ala Val 180 185 190

Asn Glu Pro Leu Pro Ala Gln Ile Ala His Asp Ala Ile Gln His Ser 195 200 205

Met Asp Leu Tyr Ala Glu Tyr Ile Leu Gln Thr Leu Arg Arg Page 2 <210> 3 <211> 245

<212> PRT

<213> Beta vulgaris

<400> 3

Met Arg Gly Ser His His His His His Gly Ser Ala Thr Met Asp 1 5 10 15

215

Glu Glu Met Asn Ala Val Ala Glu Met Asn Ala Val Ala Ser Lys Val 20 25 30

Lys Glu Glu Tyr Arg Arg Ala Pro Lys Leu Asn Gln Arg Ile Ile Ser 35 40 45

Ser Met Ser Arg Arg Ser Val Ala Ala His Pro Trp His Asp Leu Glu 50 60

Ile Gly Pro Asn Ala Pro Glu Ile Cys Asn Cys Val Val Glu Ile Pro 65 70 75 80

Lys Gly Ser Lys Val Lys Tyr Glu Leu Asp Lys Lys Thr Gly Leu Ile 85 90 95

Met Val Asp Arg Ile Lys Tyr Ser Ser Val Val Tyr Pro His Asn Tyr 100 105 110

Gly Phe Ile Pro Arg Thr Leu Cys Glu Asp Gly Asp Pro Met Asp Val 115 120 125

Leu Val Leu Met Gln Glu Pro Val Val Pro Gly Arg Phe Leu Arg Ala 130 135 140

Arg Ala Ile Gly Leu Met Pro Met Ile Asp Gln Gly Glu Leu Asp Asp 145 150 155 160

Lys Ile Ile Ala Val Cys Ala Asp Asp Pro Glu Val Arg His Tyr Thr 165 170 175

Asp Ile Asn Gln Leu Pro Pro His Arg Leu Ala Glu Ile Arg Arg Phe 180 185 190

Phe Glu Asp Tyr Lys Lys Asn Glu Asn Lys Glu Val Ala Val Asn Glu 195 200 205

Phe Leu Pro Ala Gln Ile Ala His Asp Ala Ile Gln His Ser Met Asp Page 3 Leu Tyr Ala Glu Tyr Ile Leu Gln Thr Leu Arg Arg Val Asp Leu Gln 225 235 240

Pro Ser Leu Ile Ser 245

<210> 4 <211> 2810 <212> DNA <213> Beta vulgaris

<400> 4

acactcttcc	tctccctctc	ttccaaaccc	tcttcattct	ctctctct	ctctctct	60
ctcctttatc	ttcttcttct	tcttcaattt	tcttctccca	ttttcaaaaa	tcatgggtgc	120
agctcttctt	ccagatctca	taacagagat	tatcattcct	gtatgtgctg	taattggaat	180
tgctttctct	ctctttcaat	ggtacatcgt	ttctcaggtc	aagctttccc	ctgactctac	240
ccgcaataat	aacaacaaaa	atggattttc	tgatagtttg	attgaagaag	aagaaggtct	300
taatgaccaa	agtgttgttg	ctaaatgtgc	tgaaattcag	aatgctattt	ctgaaggggc	360
aacttccttc	cttttcaccg	agtaccagta	tgttggtatc	tttatggttg	cttttgctgt	420
gttgatattc	cttttcctcg	gatctgtgga	gggtttcagc	acaagtagcc	aggaatgtac	480
ctatgacaaa	accaggaggt	gcaagcctgc	tcttgccact	gctatcttca	gcacagtggc	540
cttcttgctt	ggcgctatca	cttctttggg	ttctggtttc	ttcgggatga	agattgccac	600
atacgcaaat	gcccgaacaa	cactagaggc	tagaaagggt	gtcggcaaag	cattcattgt	660
agcattcagg	tctggagctg	tcatgggatt	cctacttgct	gcaaatggtc	ttttggtgct	720
ttacattact	atccttctct	tcaagattta	ctatggtgat	gactgggaag	gtctgtttga	780
ggctataact	ggttatggtc	ttggaggatc	atccatggcc	cttttcggta	gagttgctgg	840
aggtatttac	acaaaagctg	ccgatgtggg	tgctgatctt	gtcggtaagg	ttgaaagaga	900
catccctgag	gatgacccca	gaaatccagc	tgttattgct	gacaatgtcg	gcgacaatgt	960
tggggatatc	gctggtatgg	gttctgatct	ttttggatcc	tacgctgagt	cgtcctgtgc	1020
tgctcttgtt	gttgcatcca	tttcctcatt	cgaaatttcc	catgatttga	cggcaatgat	1080
gtacccattg	ttggttagct	cggttggtat	tattgtttgc	ttgatcacaa	ccttatttgc	1140
aaccgatttc	ttcgagatca	aggctgttaa	ggagattgag	cctgcactca	agaagcagct	1200
aatcatctcc	actgctctta	tgactgtcgg	agttgcagtt	atttcttgga	ttgctcttcc	1260
tacttcattt	accatttttg	acttcggatc	tcagaaggag	gtgcagaact	ggcaattgtt	1320
tttatgtgtt	gctgttgggt	tgtgggctgg	ctgtgcaaga	tgttgctgat	tcttgccgaa	1380

2107-283.ST25.txt ctggagctgc cacaaatgtt atttttggcc tggccttggg ttacaaatca gtcattattc 1440 1500 ctatttttgc cattgctatc agcattttcg tcagttttag ctttgcagct atgtatggta 1560 ttgctatggc tgctcttggt atgctgagca ccattgccac tggattggct attgatgcat 1620 atggccctat cagtgataat gctggaggca ttgctgagat ggctggtatg agccacagaa 1680 tccgtgagag aactgatgcc cttgatgctg ctggaaacac aaccgctgct attggaaagg 1740 gttttgcaat cggttctgca gctcttgttt ctcttgctct ctttggtgct tttgtaagcc 1800 gtgcatccat ccaaactgtg gatgtgttga ccccgaaagt attcattggt ctcattgtgg 1860 gagccatgct tccatactgg ttctctgcca tgacaatgaa gagtgtggga agtgcagctt 1920 tgaaaatggt tgaggaggtc cgaaggcaat tcaacaccat ccctggcttg ctggaaggca 1980 ctgccaaacc cgactatgct acctgtgtca agatctccac tgatgcttcc atcaaggaga 2040 tgatccccc aggtgctctt gtcatgctca caccattgat tgttggaacc ttctttggtg 2100 tcgaaactct gtctggcgtt cttgctggtt ctcttgtgtc tggtgtacag attgctattt 2160 ctgcatccaa cactggtggt gcttgggaca atgccaagaa gtacattgag gctggtgctt 2220 cagagcatgc aaggacactt ggtcccaagg gatcagatgc acacaaggca gctgtgatcg 2280 gtgacaccat cggtgaccca cttaaggaca catcaggacc atcactcaac attctaatca 2340 agcttatggc tgtcgagtca ctagtgttcg cccccttctt cgccacccac ggtggcttgc 2400 tcttcaagta cctctaaata tgatcggcgc aaaatcagaa ggcgacagag ggaggaattc 2460 gcggtttctt ctcctcattt tgtcgcctac aaatcgggca agttttaaat tttatcgcac 2520 aatttttgaa tgtcgttaga tgacaactac aaggctggag gggctaaaac ttctacatga 2580 tgatgatgat aatgataatt tggaagcaag tcttgtgaaa aatagagtta tatggtcaac 2640 attattcttt tctttttct tccttttatt gtaagatcgg gatttgtagt aatcattttg 2700 caaacctctt ttgttaggta taactcattt tctattttag tccttcagaa attgcatgca 2760 gttgcccttt tattttctaa aaagagaacc tgttcttgag catgtgttgt aagggcagaa 2810 tgttctcatg tactttcttg gaatttatct cattttgcag attggatcta

```
<210> 5
<211> 764
<212> PRT
<213> Beta vulgaris
<400> 5
```

Met Gly Ala Ala Leu Leu Pro Asp Leu Ile Thr Glu Ile Ile Ile Pro 1 10 15

Val Cys Ala Val Ile Gly Ile Ala Phe Ser Leu Phe Gln Trp Tyr Ile 20 25 30

Val Ser Gln Val Lys Leu Ser Pro Asp Ser Thr Arg Asn Asn Asn Asn 35 40 45 Lys Asn Gly Phe Ser Asp Ser Leu Ile Glu Glu Glu Glu Gly Leu Asn 50 60 Asn Gln Ser Val Val Ala Lys Cys Ala Glu Ile Gln Asn Ala Ile Ser 65 70 75 80 Glu Gly Ala Thr Ser Phe Leu Phe Thr Glu Tyr Gln Tyr Val Gly Ile 85 90 95 Phe Met Val Ala Phe Ala Val Leu Ile Phe Leu Phe Leu Gly Ser Val 100 105 110 Gln Gly Phe Ser Thr Ser Ser Gln Glu Cys Thr Tyr Asp Lys Thr Arg 115 120 125 Cys Lys Pro Ala Leu Ala Thr Ala Ile Phe Ser Thr Val Ala Phe 130 140 Leu Leu Gly Ala Ile Thr Ser Leu Gly Ser Gly Phe Phe Gly Met Lys 155 160 Ile Ala Thr Tyr Ala Asn Ala Arg Thr Thr Leu Glu Ala Arg Lys Gly
165 170 175 Val Gly Lys Ala Phe Ile Val Ala Phe Arg Ser Gly Ala Val Met Gly 180 185 190 Phe Leu Leu Ala Ala Asn Gly Leu Leu Val Leu Tyr Ile Thr Ile Leu 195 200 205 Leu Phe Lys Ile Thr Thr Gly Asp Asp Trp Gln Gly Leu Phe Gln Ala 210 215 220 Ile Thr Gly Tyr Gly Leu Gly Gly Ser Ser Met Ala Leu Phe Gly Arg 225 230 235 240 Val Ala Gly Gly Ile Tyr Thr Lys Ala Ala Asp Val Gly Ala Asp Leu 245 250 255 Val Gly Lys Val Glu Arg Asp Ile Pro Glu Asp Asp Pro Arg Asn Pro 260 265 270 Ala Val Ile Ala Asp Asn Val Gly Asp Asn Val Gly Asp Ile Ala Gly 275 280 285 Page 6

Met Gly Ser Asp Leu Phe Gly Ser Tyr Ala Glu Ser Ser Cys Ala Ala 290 295 300 Leu Val Val Ala Ser Ile Ser Ser Phe Glu Ile Ser His Asp Leu Thr 305 310 315 320 Ala Met Met Tyr Pro Leu Leu Val Ser Ser Val Gly Ile Ile Val Cys 325 330 335 Leu Ile Thr Thr Leu Phe Ala Thr Asp Phe Phe Glu Ile Lys Ala Val 340 345 350 Lys Glu Ile Glu Pro Ala Leu Lys Lys Gln Leu Ile Ile Ser Thr Ala 355 360 365 Leu Met Thr Val Gly Val Ala Val Ile Ser Trp Ile Ala Leu Pro Thr 370 375 380 Ser Phe Thr Ile Phe Asp Phe Gly Ser Gln Lys Glu Val Gln Asn Trp 385 390 395 400 Gln Leu Phe Leu Cys Val Ala Val Gly Leu Trp Ala Gly Leu Ile Ile 405 410 415 Gly Phe Val Thr Gln Tyr Tyr Thr Ser Asn Ala Tyr Ser Pro Val Gln 420 430 Asp Val Ala Asp Ser Cys Arg Thr Gly Ala Ala Thr Asn Val Ile Phe 435 440 445 Gly Leu Ala Leu Gly Tyr Lys Ser Val Ile Ile Pro Ile Phe Ala Ile 450 455 460 Ala Ile Ser Ile Phe Val Ser Phe Ser Phe Ala Ala Met Tyr Gly Ile 465 470 475 480 Ala Met Ala Ala Leu Gly Met Leu Ser Thr Ile Ala Thr Gly Leu Ala 485 490 495 Ile Asp Ala Tyr Gly Pro Ile Ser Asp Asn Ala Gly Gly Ile Ala Glu 500 505 510 Met Ala Gly Met Ser His Arg Ile Arg Glu Arg Thr Asp Ala Leu Asp 515 520 525 Ala Ala Gly Asn Thr Thr Ala Ala Ile Gly Lys Gly Phe Ala Ile Gly Page 7

530 535

Ser Ala Ala Leu Val Ser Leu Ala Leu Phe Gly Ala Phe Val Ser Arg 545 550 555 560

Ala Ser Ile Gln Thr Val Asp Val Leu Thr Pro Lys Val Phe Ile Gly 565 570 575

Leu Ile Val Gly Ala Met Leu Pro Tyr Trp Phe Ser Ala Met Thr Met 580 585 590

Lys Ser Val Gly Ser Ala Ala Leu Lys Met Val Glu Glu Val Arg Arg 595 600 605

Gln Phe Asn Thr Ile Pro Gly Leu Leu Gln Gly Thr Ala Lys Pro Asp 610 620

Tyr Ala Thr Cys Val Lys Ile Ser Thr Asp Ala Ser Ile Lys Glu Met 625 630 635 640

Ile Pro Pro Gly Ala Leu Val Met Leu Thr Pro Leu Ile Val Gly Thr 645 650 655

Phe Phe Gly Val Gln Thr Leu Ser Gly Val Leu Ala Gly Ser Leu Val 660 665 670

Ser Gly Val Gln Ile Ala Ile Ser Ala Ser Asn Thr Gly Gly Ala Trp 675 680 685

Asp Asn Ala Lys Lys Thr Ile Glu Ala Gly Ala Ser Glu His Ala Arg 690 695 700

Thr Leu Gly Pro Lys Gly Ser Asp Ala His Lys Ala Ala Val Ile Gly 705 710 715 720

Asp Thr Ile Gly Asp Pro Leu Lys Asp Thr Ser Gly Pro Ser Leu Asn 725 730 735

Ile Leu Ile Lys Leu Met Ala Val Glu Ser Leu Val Phe Ala Pro Phe 740 745 750

Phe Ala Thr His Gly Gly Leu Leu Phe Lys Tyr Leu 755 760

<210> 6

<211> 1733

<212> DNA

<213> Beta vulgaris

<400> 6						
	gattcacata	ggatgtgaac	cgttgatttt	ttttttttt	taaaaagttc	60
agtgcaaaag	ttagaaatta	cttaaggcaa	atcgctattt	caattagcga	ttttattaaa	120
atagatcact	aactgaagcc	tgtttactat	cattttttgt	ttttagcttt	caaaatttct	180
aaaaactata	aacaagatga	taaaaaccac	aaaaaatagt	tttaagttat	tagttttcaa	240
aattgagaag	actatatatt	atagcaatga	atacttttaa	gtttattata	ctgtttatat	300
catatgactt	ttaaaaccat	caaccaaaaa	ttgaaaatta	atagtgatgt	tgaacaaccc	360
taagttagca	ttttctattt	tacaaaacca	ctaactcgga	tagcgattta	attaagttaa	420
accactaact	caaaattagc	ggtttaattc	gggtacatca	caaaccattc	acataacact	480
tgaacaatat	tttctaaaat	aaaaactaac	ctaaaccgct	aactcaatta	gtgatgttga	540
gagtatttt	gtccttcttt	aacctcacag	ctaatggttt	tgttcattat	aagtgtcact	600
tcaataaaat	gattctcata	gttatcttta	aaaagtgttc	ttttatgtta	aaaacaatta	660
agttcaatga	cataaacgag	attcgatccc	acacaagact	ttaccagtta	agctatataa	720
catccatcag	tatctaaaaa	gaagtcggta	cctgacaatg	acggtaaaaa	agcaccttaa	780
aaaagtaata	ctatgtgaat	ttaggttcct	tatcaagcgc	ttcagaaaca	cctattatca	840
atcaaagaaa	taatagtaat	aataataata	ccaataaaaa	taattaaaat	gaattacaaa	900
atataatact	ccacctaatt	ataatttact	agaattttt	gcacgcgatg	cgtgcttgaa	960
ttttttcga	aaaagaaact	cgatttttt	cgacataaga	gtcaaaattt	gaacattaga	1020
caaacgaagt	ataattattt	ttagttgcaa	aatttgattg	gcttagtttc	tatcacttat	1080
atctctcacc	attctttttt	ttttttatac	ttttcaaagt	taaattatat	gaacaaaaga	1140
gaaattttat	tgaatttatt	tataattttt	aatattataa	ttttttagtt	gatttttgaa	1200
ttaagtacag	tactttataa	attgtaaaga	aagtgtacac	tttgatttca	agtcaatttt	1260
ttcataggtt	gtagtttgta	agtgaatttt	tttgtttttg	taaagtttat	tcattttagt	1320
gatttgcata	acgtaaatta	tgcaatttta	tgattttagt	tgacttgtga	gtgattgtta	1380
taattatatt	tttggcattt	ttgtttgaag	cccactttaa	tttgtaagtg	aatttgttat	1440
ttagaatgag	aagggggtaa	aatagacatt	tcaaaatagg	acaccattgc	tcccctttcc	1500
cttatataat	agagataagt	agtaaataaa	tagaaagtaa	aaacccctca	actttgagga	1560
gtacttacct	taattaatat	cccatttccc	ttgtcaatcc	tccctataaa	acaaaaccca	1620
cacttctcac	actcttcctc	tccctctctt	ccaaaccctc	ctcattttct	ctctctct	1680
cctttatctt	cttcttcttc	ttcaattttc	ttctcccatt	ttcaaaaatc	atg	1733

212 -			2107-283.5	123. TXT		
<212> D <213> B	NA eta vulgaris					
<400> 7 tcgaattt	ac aataatttat	tttgcacata	aaaattgacg	ttgttgcgca	taaattgaat	60
ataatata	aa agattattga	ctacatcaca	taaaatctga	ttatgagtga	gttctttctt	120
cacctaaa	ta acatgaactt	atttaaactg	acttattaaa	ccttattgat	ccttacttga	180
acgtatat	tt gagtattatc	tcagacctga	tcaattataa	tcagactata	tctgaactta	240
ttagacct	aa aatttattt	ttaagttgaa	gagaatatac	cttataattc	atattaaaaa	300
attaacta	ca tatacaaaaa	atgattattt	aaaaaataat	tatatcaaat	aaaaacggac	360
tatattat	ac taaagctata	tttagttcac	ccgaattttt	tgattagaac	ttatgttttc	420
taatctga	tc tgatctgaac	tgatctgatt	acaagatctt	atcttttaga	tttttctcaa	480
tatataag	aa aaaatataat	catgtggggt	cttgtttgat	tcgtatcaat	gagtacttta	540
ttcatgtt	ca attattataa	tttttactaa	tacgtgaaga	aagatattta	atagtaataa	600
tgatttt	aa atatgagcat	gatctgaact	gatttgatct	gaacttttt	tttatctgat	660
ctgaaata	ag taaaaataag	ctcaactaaa	catggcctaa	gtataatttt	caataaacaa	720
cattaagt	ta ttatgaatgt	aatccatttc	aagtttttt	taaaacccta	ttacacctca	780
ccacaccc	aa taaaaacccg	tcctaatttc	tcctcactat	aaaactaaaa	acccactcca	840
ctctctta	ca cacactccac	actcaaattg	tgttgttgtc	ttaactgtat	tttctctgtt	900
gccggaat	tt cggcgatttt	tagggttccg	gcgtaaagtt	agggttccgg	tgaagaaaaa	960
tg						962
<212> D	8 NA eta vulgaris					
<400> 8 tgctgctc	at ccwtggca					18
<212> D	2					
<400> 9 tcrttytt	ct tgtartcytc	aa				22
<211> 3 <212> D	.0 8 NA eta vulgaris					
<400> 1	.0		Page	10		
			74116	117		

gtcggg	atcc gccaccatgg atgaggagat	2107-283.ST25.txt gaatgctg	38
<210> <211> <212> <213>	11 38 DNA Beta vulgaris		
<400> gaagct	11 gcag gtcgactctc ctcaatgtct	gtaggatg	38
<210> <211> <212> <213>	12 31 DNA Beta vulgaris		
<400> ccgggg	12 tacc aaggaatttg tagatctccg	a	31
<210> <211> <212> <213>	13 31 DNA Beta vulgaris		
<400> ctagtc	13 taga agcctcctaa accaaacatg	a	31
<210> <211> <212> <213>	14 30 DNA Beta vulgaris		
<400> acactc	14 ttcc tctccctctc ttccaaaccc		30
<210> <211> <212> <213>	15 31 DNA Beta vulgaris		
<400> tagato	15 caat ctgcaaaatg agataaattc	с	31
<210> <211> <212> <213>	16 34 DNA Beta vulgaris	,	
<400> aagtcg	16 gggc ccgaattccc atggagtcaa	agat	34
<210> <211> <212> <213>	17 35 DNA Beta vulgaris		
<400>	17		

gaagcc	atcg ataagcttgg acaatcagta	2107-283.ST25.txt aattg	35
<210> <211> <212> <213>	18 20 DNA Beta vulgaris		
<400> ggwggh	18 attg ctgaratggc		20
<210> <211> <212> <213>	19 21 DNA Beta vulgaris		
<400> agtayt	19 tctt dgcrttvtcc c		21
<210> <211> <212> <213>	24 DNA		
<400> ccaaaa	20 cgtc gtcgctaaat gtgc		24
<210> <211> <212> <213>	21 20 DNA Beta vulgaris		
<400>	21 accc taactttacg		20